Philips
LCD widescreen monitor

19.1" wide
WXGA+

190TW8FB

Full-feature LCD monitor and TV combo

Combine work and entertainment with this widescreen multi-function monitor! With a large, wide viewing area, TV, video and HDMI input plus built-in speakers, the Philips 190TW8 boosts your productivity and brings you ultimate enjoyment.

Great convenience
- Built-in TV module for viewing TV programs on the PC monitor
- HDMI-ready for top quality, single cable video and audio
- Multiple Audio/Video inputs (480i/p, 720p, 1080i)
- Enjoy multimedia experience with built-in speakers

Outstanding front of screen performance
- HD Ready for the highest quality display of HD signals
- 5ms fast response time
- WXGA+, wide format 1440 x 900 resolution for sharper display

Design that complements any interior
- Compact and slim design that fits in every room

For advanced performance
- 3D combfilter effectively delivers better picture quality
- Reliable audio via a SPDIF coaxial connector

PHILIPS
sense and simplicity

LCD widescreen monitor
19.1" wide WXGA+

190TW8FB/00

Specifications

Picture/Display
- LCD panel type: 1440 x 900 pixels, Anti-glare polarizer, RGB vertical stripe
- Panel Size: 19.1"/ 48.1 cm
- Effective viewing area: 410.4 x 256.5 mm
- Pixel pitch: 0.285 x 0.285 mm
- Brightness: 300 cd/m²
- Contrast ratio (typical): 1000:1
- Display colors: 16.7 M
- Viewing angle: 170° (H) / 160° (V), @ C/R > 10
- Response time (typical): 5 ms
- Maximum Resolution: 1440 x 900 @ 75 Hz
- Recommended Resolution: 1440 x 900 @ 60 Hz
- Video Dot Rate: 140 MHz
- Horizontal Scanning Frequency: 30 - 71 kHz
- Vertical Scanning Frequency: 50 - 75 Hz

Supported Display Resolution
- Computer formats

Resolution	Refresh rate
640 x 480	60, 75Hz
800 x 600	60, 72, 75Hz
1024 x 768	60, 75Hz
1280 x 720	60Hz
1440 x 900	60, 75Hz

- Video formats

Resolution	Refresh rate
480i	60Hz
480p	60Hz
576i	50Hz
576p	50Hz
720p	50, 60Hz
1080i	50, 60Hz

Sound
- Output power (RMS): 2 speakers @ 5w each
- Sound System: Mono, Nicam Stereo, Stereo

Convenience
- Child Protection: Child Lock+Parental Control
- Ease of Installation: Plug & Play
- Ease of Use: On Screen Display, Auto Volume Leveller (AVL)
- Screen Format Adjustments: 4:3, 16:10, Full screen, Panorama, Movie expand 1(2.35:1), Movie expand 2 (1.85:1), Auto Format
- VESA Mount: 100 x 100mm

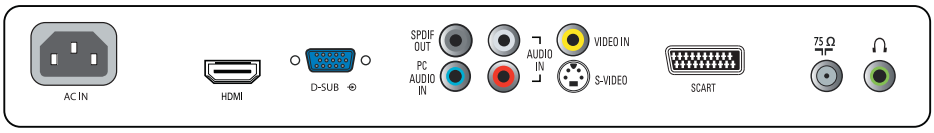
Tuner/Reception/Transmission
- Aerial Input: 75 ohm coaxial (IEC75)
- TV system: PAL I, PAL B/G, PAL D/K, SECAM B/G, SECAM D/K, SECAM L/L'
- Video Playback: PAL, SECAM, NTSC
- Tuner bands: Hyperband, UHF, VHF

Connectivity
- AV input: Audio (L/R) x1, Composite (CVBS) x1, S-video x1
- Ext 1 Scart: CVBS in/out, RGB
- Other connections: HDMI, PC Audio in, VGA in, S/PDIF out (coaxial), Headphone out

Power
- Ambient temperature: 5 °C to 40 °C
- Mains power: 90-264 VAC. 47-63 Hz
- Consumption: < 58 W
- Standby power consumption: < 1 W

Accessories
- Included Accessories: AC Power Cord, VGA cable, Audio Cable, Quick start guide, User Manual, Remote Control, Batteries for remote control

Dimensions
- Box dimensions (W x H x D): 490 x 187 x 565 mm
- Box dimensions in inch (W x H x D): 19.3 x 7.4 x 22.2 inch
- Set dimensions (W x H x D): 491 x 370 x 69 mm
- Set dimensions in inch (W x H x D): 19.3 x 14.6 x 2.7 inch
- Set dimensions with stand (W x H x D): 491 x 413 x 139 mm
- Set dimensions with stand in inch (W x H x D): 19.3 x 16.3 x 5.5 inch
- MTBF: 50,000 (excl. CCFL 40,000) hrs
- Relative humidity: 20% - 80%
- Temperature range (operation): 0°C to 40°C
- Temperature range (storage): -20°C to 60°C
- Product weight (+stand): 4.69 kg
- Product weight (+stand) (lb): 10.3 lb
- Weight incl. Packaging: 6.51 kg
- Weight incl. Packaging (lb): 14.4



Product highlights

TV module
A television tuner built into a monitor to display television signals as well as computer data.

HDMI ready
A HDMI-ready device has all the required hardware to accept High-Definition Multimedia Interface (HDMI) input, high quality digital video and audio signals all transmitted over a single cable from a PC or any number of AV sources including set-top boxes, DVD players and A/V receivers.

Multiple AV inputs
Multiple AV inputs accommodate a variety of format choices in connecting video and audio devices (480i/p, 720p, 1080i).

Built-in speakers
Audio speakers built into a display device.

HD Ready
Enjoy the exceptional picture quality of High Definition pictures and be fully prepared for HD sources like HDTV settop box or Blu-ray disc. HD Ready is a protected label that offers picture quality beyond that of progressive scan. It conforms to strict standards laid out by EICTA to offer a HD screen that displays the benefits of resolution and picture quality of a High Definition signal. It has a universal connection for both analog YPbPr and uncompressed Digital connection of DVI or HDMI, supporting HDCP. It can display 720p, and 1080i signals at 50 and 60Hz.

5ms on/off response time
On-Off response time is the period required for a liquid crystal cell to go from active (black) to inactive (white) and back to active (black) again. It is measured in milliseconds. Faster is better: Lower response time means faster transitions and, therefore, results in fewer visible image artifacts in the display of transition of texts and graphics. On-Off response time is a more important measure in the display of business content like documents, graphs and photos.

WXGA+ 1440 x 900 resolution
WXGA+ or Wide Extended Graphics Array plus is a standard indicating a graphics monitor's ability to display up to the resolutions 1440 by 900 pixels and supports simultaneous display of more than one million colors. WXGA allows monitors to be non-interlaced for better display performance and increased color accuracy.

Compact and slim design
This design style emphasizes a slim, compact look that saves space and fits in anywhere.

3D combfilter
The 3D comb filter separates brightness and color signals better in 3D domain to eliminate cross-color, cross-luminance and dot-crawl distortion - all of which detract from your viewing pleasure. The 3D digital comb filter performs field-by-field comparisons of the television image to accurately separate the color from the black-and-white information and remove both horizontally and vertically hanging dots, as well as dot crawl. The result is a razor sharp image.

Coaxial Digital Audio SPDIF
An SPDIF coaxial cable is a highly reliable way of connecting digital audio.

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